

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., January 31, 1917.

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1917.]

READ CAREFULLY BEFORE ORDERING.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete post-office address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Canaries, Their Care and Management. By Alexander Wetmore, Assistant Biologist. Pp. 20, figs. 5. Contribution from the Bureau of Biological Survey. December, 1915. (Farmers' Bulletin 770.)

For general distribution.

The Use of a Diary for Farm Accounts. By E. H. Thomson, Assistant Chief. Pp. 19, figs. 5. Contribution from the Office of Farm Management, Office of the Secretary. January, 1917. (Farmers' Bulletin 782.)

For general distribution.

Contagious Abortion of Cattle. By Adolph Eichhorn, Chief of Pathological Division, and George M. Potter, Veterinary Inspector, Pathological Division. Pp. 12. Contribution from the Bureau of Animal Industry. January, 1917. (Farmers' Bulletin 790.)

Suitable for general distribution.

How the Federal Farm Loan Act Benefits the Farmer. By C. W. Thompson, Specialist in Rural Organization. Pp. 12. Contribution from the Office of Markets and Rural Organization. January, 1917. (Farmers' Bulletin 792.)

For general distribution.

DEPARTMENT BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Endothia Parasitica and Related Species. By C. L. Shear, Pathologist, and Neil E. Stevens, Pathologist, Fruit-Disease Investigations, and Ruby J. Tiller, Scientific Assistant, Office of Investigations in Forest Pathology. Pp. 82, pls. 23, figs. 5. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 15, 1917. (Department Bulletin 380.) Price, 35 cents.

Of value to botanists, especially plant pathologists and mycologists, and to all persons who are interested in the study of chestnut blight.

Public Road Mileage and Revenues in the New England States, 1914. Prepared jointly by the Division of Road Economics of the Office of Public Roads and Rural Engineering, and State Collaborators. Pp. 74. Contribution from the Office of Public Roads and Rural Engineering. Jan. 8, 1917. (Department Bulletin 388.) Price, 10 cents.

A compilation showing roads, mileage of improved and unimproved roads, sources and amounts of road revenues, bonds issued and outstanding, and a description of the systems and other factors affecting road improvement in each State.

Public Road Mileage and Revenues in the United States, 1914. Pp. 12. Contribution from the Office of Public Roads and Rural Engineering. Jan. 12, 1917. (Department Bulletin 390.) Price, 5 cents.

A summary showing for each State total and surfaced mileage of public roads at the close of 1914, revenues for roads and bridges in 1914, State and local road and bridge bonds outstanding January 1, 1915, and other related data.

Peach Scab and Its Control. By G. W. Keitt, formerly Scientific Assistant, Fruit-Disease Investigations. Pp. 66, pls. 6, figs. 4. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 18, 1917. (Department Bulletin 395.) Price, 20 cents.

A technical description of this disease, with suggestions for its control. Suitable for distribution in peach-producing sections east of the Rocky Mountains.

The Red Spider on Cotton. By E. A. McGregor and F. L. McDonough, Scientific Assistants. Pp. 72, pls. 8, figs. 31. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 29, 1917. (Department Bulletin 416.) Price, 20 cents.

Of interest to those who are subjected to loss or annoyance by the red spider.

Medicago Falcata, a Yellow-Flowered Alfalfa. By R. A. Oakley, Agronomist, and Samuel Garver, Scientific Assistant, Office of Forage-Crop Investigations. Pp. 70, pls. 4, figs. 23. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 9, 1917. (Department Bulletin 428.) Price, 15 cents.

Intended primarily for those who are interested in alfalfa breeding.

Flat-Headed Borers Affecting Forest Trees in the United States. By H. E. Burke, Specialist in Forest Entomology, Forest Insect Investigations. Pp. 9, pls. 9. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 16, 1917. (Department Bulletin 437.) Price, 10 cents.

A technical description of the life history, habits, and distinguishing characters of these insects. Of interest to entomologists generally.

Possibility of the Commercial Production of Lemon-Grass Oil in the United States. By S. C. Hood, Scientific Assistant, Drug-Plant and Poisonous-Plant Investigations. Pp. 12, figs. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 25, 1917. (Department Bulletin 442.) Price, 5 cents.

A report of experiments conducted to determine the commercial possibilities of the cultivation of lemon grass for the production of the oil, which is used in the manufacture of perfumes and soaps.

The Cost of Producing Apples in Wenatchee Valley, Washington. By G. H. Miller, Assistant Agriculturist, and S. M. Thomson, Scientific Assistant. Pp. 35, pls. 3, figs. 7. Contribution from the Office of Farm Management, Office of the Secretary. Jan. 10, 1917. (Department Bulletin 446.) Price, 10 cents.

A detailed study, made in 1914, of the current cost factors involved in the maintenance of orchards and the handling of the crop on 87 orchards.

The Control of Damping-Off of Coniferous Seedlings. By Carl Hartley, Forest Pathologist, and Roy G. Pierce, Forest Assistant, Office of Investigations in Forest Pathology. Pp. 32, pls. 2, figs. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 20, 1917. (Department Bulletin 453.) Price, 5 cents.

Of interest to nurserymen generally.

The Identification of Grasses by their Vegetative Characters. By Lyman Carrier, Agronomist in Pasture Investigations, Forage-Crop Investigations. Pp. 30, figs. 60. Contribution from the Bureau of Plant Industry. Jan. 19, 1917. (Department Bulletin 461.) Price, 5 cents.

Contains an analytical key to grass seedlings and detailed descriptions of 48 seedling grasses and of 8 small grain seedlings. Of interest to agronomists generally.

Potatoes, Sweet Potatoes, and Other Starchy Roots as Food. By C. F. Langworthy, Chief, Office of Home Economics. Pp. 29, figs. 7. Contribution from the States Relations Service. (Professional Paper.) Jan. 17, 1917. (Department Bulletin 463.) Price, 5 cents.

A revision in part of Farmers' Bulletin 295; it summarizes the results of experimental and other data regarding the nature and uses of potatoes and starchy roots as food, and is primarily of interest to housekeepers and to teachers and students of home economics.

Apples: Production Estimates and Important Commercial Districts and Varieties. By H. P. Gould, Bureau of Plant Industry, and Frank Andrews, Bureau of Crop Estimates. Pp. 48, figs. 16. Contribution from the Bureau of Plant Industry and the Bureau of Crop Estimates. Jan. 20, 1917. (Department Bulletin 485.) Price, 10 cents.

Is of general interest to those concerned with the apple industry. The information which it contains in regard to the areas where apples are grown extensively and the principal varieties produced in them is based largely on reports received from correspondents who were requested to supply such information and who were addressed in this connection because of their familiarity with the fruit interests in the States in which they live.

Eggs and their Value as Food. By C. F. Langworthy, Chief, Office of Home Economics. Pp. 29, figs. 3. Contribution from the States Relations Service. (Professional Paper.) Jan. 31, 1917. (Department Bulletin 471.) Price, 5 cents.

Of special interest to housekeepers and to home-economics extension workers, teachers, and students. It summarizes data regarding the nature and uses of eggs and the effects of methods of handling, storing, and marketing upon the value of eggs in the household.

Judging Horses as a Subject of Instruction in Secondary Schools. By H. P. Barrows, Assistant in Agricultural Education in States Relations Service. Pp. 31, figs. 16. Contribution from the States Relations Service. (Professional Paper.) Jan. 25, 1917. (Department Bulletin 487.) Price, 10 cents.

Intended for the use of teachers of secondary agriculture.

A Preliminary Report on the Occurrence of Western Red-Rot in Pinus Ponderosa. By W. H. Long, Forest Pathologist, Office of Investigations in Forest Pathology. Pp. 8. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 18, 1917. (Department Bulletin 490.) Price, 5 cents.

Contains a technical description of the disease known as western red-rot, and shows damage caused by same.

A Humidifier for Lemon Curing Rooms. By A. D. Shamel, Physiologist in Charge of Fruit-Improvement Investigations, Office of Horticultural and Promological Investigations. Pp. 11, figs. 7. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 16, 1917. (Department Bulletin 494.) Price, 5 cents.

Of interest to growers and shippers of lemons.

Poles Purchased, 1915. By Arthur M. McCroight. Pp. 4. Contribution from the Forest Service. (Professional Paper.) Jan. 24, 1917. (Department Bulletin 519.) Price, 5 cents.

A compilation of statistics on the number of poles purchased in the United States during 1915 by the telephone and telegraph companies, steam and electric roads, and electric light, heat, and power companies.

MISCELLANEOUS.

- Composition of Hawaiian Soil Particles.** By Wm. T. McGeorge, Former Chemist, Hawaii Agricultural Experiment Station. Pp. 12. Jan. 17, 1917. (Bulletin 42, Hawaii Agricultural Experiment Station.) Price, 5 cents.
- Forest Fires in the United States in 1915.** By J. Girvin Peters, Chief of State Cooperation, Forest Service. Pp. 6. Jan. 11, 1917. (Circular 69, Office of the Secretary.) Price, 5 cents.
- Winter Egg Production.** By Alfred R. Lee, Animal Husbandman in Poultry Investigations, Bureau of Animal Industry. Pp. 4. January, 1917. (Circular 71, Office of the Secretary.) Price, 5 cents.

REPORT.

- Some Public and Economic Aspects of the Lumber Industry:** Studies of the Lumber Industry, Part 1. By William B. Greeley, Assistant Forester. Pp. 100, figs. 14. Contribution from the Forest Service, Jan. 24, 1917. (Report No. 114, Office of the Secretary.) Price, 25 cents.
- The first of three reports to be issued on the lumber industry, and is a study of timber ownership and lumber manufacture in four regions which contain the bulk of the forest resources of the United States and furnish the greater part of the soft-wood lumber.

SERIALS.

- Journal of Agricultural Research.** (For sale only.) Vol. 8, No. 1. Jan. 2, 1917. Contents: Diagnosis of Tuberculosis by Complement Fixation, with Special Reference to Bovine Tuberculosis. (gs N.H.-2.) By A. Eichhorn and A. Blumberg.—Availability of the Potash in Certain Orthoclase-Bearing Soils as Affected by Lime or Gypsum, by Lyman J. Briggs and J. F. Breazale. (gp G-102.) Pp. 1-28, fig. 1. Price, 10 cents.
- Same, Vol. 8, No. 2. Jan. 8, 1917. Contents: Ewes' Milk: Its Fat Content and Relation to the Growth of Lambs. (gs N.H.-2.) By E. G. Ritzman.—Immunity Studies on Anthrax Serum. (gt A-27.) By A. Eichhorn, W. N. Berg, and R. A. Kelser. Pp. 29-56, figs. 2. Price, 5 cents.
- Same, Vol. 8, No. 3. Jan. 15, 1917. Contents: Calcium Compounds in Soils. (gu H-4.) By Edmund C. Shorey, William H. Fry, and William Hazen.—Studies upon the Black-leg Disease of the Potato, with Special Reference to the Relationship of the Causal Organisms. (2v Me.-9.) By W. J. Morse. Pp. 57-126. Price, 15 cents.
- Same, Vol. 8, No. 4. Jan. 22, 1917. Contents: Effect of Fertilizers on the Composition and Quality of Oranges. (gw Cal.-8.) By H. D. Young.—Temperature Relations of Apple-rot Fungi. (gx G-103.) By Charles Brooks and J. S. Cooley. Pp. 127-164, pls. 3, figs. 25. Price, 15 cents.
- Same, Vol. 8, No. 5. Jan. 29, 1917. Contents: Mechanism of Tumor Growth in Crown-gall. (ha G-104.) By Erwin F. Smith. Pp. 165-188, pls. 65. Price, 65 cents.
- NOTE.—Beginning with Volume 5, The Journal of Agricultural Research will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchange with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.
- Experiment Station Record.** Vol. XXXV, No. 8, December, 1916. E. W. Allen, Ph. D., Editor. Pp. 701-800. Price, 15 cents.
- Same, Vol. XXXV, No. 9. Abstract Number. Jan. 13, 1917. Pp. 801-900. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

- The Monthly Crop Report.** Vol. 3, No. 1. January, 1917. Pp. 1-12. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock statistics for 1916. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

- Bureau of Animal Industry.** No. 116. December, 1916. Pp. 105-120. Jan. 18, 1917. Price, 5 cents.



Federal Horticultural Board. No. 35. December, 1916. Pp. 153-158. Jan. 24, 1917. Price, 5 cents.

Office of Markets and Rural Organization. No. 18. Pp. 18. Jan. 27, 1917. Price, 5 cents.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Yell County, Arkansas. By E. B. Deeter, In Charge, and Clarence Lounsbury. Pp. 41, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Grenada County, Mississippi. By W. E. Tharp, of the U. S. Department of Agriculture, In Charge, and J. B. Hogan, of the Mississippi Geological Survey. Pp. 32, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of the Bitterroot Valley Area, Montana. By E. C. Eckmann, In Charge, and G. L. Harrington. Pp. 72, pls. 3, fig. 1, map. (From F. O. Soils, 1914.) Price, 20 cents.

Soil Survey of Lamoure County, North Dakota. By A. C. Anderson, In Charge, F. Z. Hutton, and T. M. Bushnell, of the U. S. Department of Agriculture, and Melvin Thomas and Murray E. Stebbins, of the North Dakota Agricultural Experiment Station. Pp. 53, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Dorchester County, South Carolina. By W. J. Latimer, In Charge, J. M. Snyder, and Cornelius Van Duyne. Pp. 45, pls. 2, fig. 1, map. (From F. O. Soils, 1915.) Price, 25 cents.

Soil Survey of Smith County, Texas. By L. R. Schoenmann, In Charge, E. H. Smies, W. A. Rockie, E. T. Maxon, F. Z. Hutton, and H. G. Lewis. Pp. 51, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Franklin County, Washington. By Cornelius Van Duyne, In Charge, and J. H. Agee, of the U. S. Department of Agriculture, and Fred W. Ashton, of the Washington Geological Survey. Pp. 99, pls. 2, figs. 6, map. (From F. O. Soils, 1914.) Price, 15 cents.

YEARBOOK SEPARATES.

Farms, Forests, and Erosion. By Samuel T. Dana, Forest Service. Pp. 28, pls. 10. (Separate 688, Yearbook, 1916.) Price, 10 cents.

Agriculture on Government Reclamation Projects. By C. S. Scofield and F. D. Farrell. Bureau of Plant Industry. Pp. 22, pls. 3. (Separate 690, Yearbook, 1916.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Annual Report of Chief of Weather Bureau, 1915-1916. [Administrative report, fiscal year 1916, with meteorological tables, calendar year 1915.] 1916. [4 pls.] Pp. 282, charts 4. 4to. Price, 60 cents, cloth.

Monthly Weather Review. (For sale only.) Vol. 44, No. 10. October, 1916. Dec. 1, 1916. Pp. 547-610, charts 10, figs. 6. Price, 25 cents per copy, \$2.50 a year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation measurement during October, 1916. By H. H. Kimball.—Additional notes on the high haze of July and August, 1916. By H. H. Kimball.—Elementary notes on Least Squares, etc., for Meteorology and Agriculture. By C. F. Marvin.—Injury to vegetation resulting from climatic conditions. By George E. Stone.—Lassen Peak's name. By U. S. Geological Survey.—Eruption of Lassen Peak. By A. H. Palmer.—New Method of determining "g." By Herbert Bell.—Indian Summer and Plimsoll's mark. By W. G. Reed.—Weather Insurance. By W. G. Reed.—What is "geocol"?

National Weather and Crop Bulletin. No. 32, December, 1916, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins. for Jan. 2, 9, 16, 23, 30, 1917. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,

Editor and Chief, Division of Publications.